

OIKE

## RAW SEQUENCE LISTING

DATE: 11/16/2001

PATENT APPLICATION: US/09/806,703A

TIME: 15:05:16

Input Set : A:\2001-11-13 3631-0109P CRF.txt

Output Set: N:\CRF3\11162001\I806703A.raw

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3 <110> APPLICANT: Steinaa, Lucilla
4      Mouritsen, Soren
5      Gautam, Anand
6      Dalum, Iben
7      Haaning, Jesper
8      Leach, Dana
9      Nielsen, Klaus
10     Karlsson, Gunilla
11     Rasmussen, Peter
13 <120> TITLE OF INVENTION: Novel Methods for Therapeutic Vaccination
15 <130> FILE REFERENCE: 3631-0109P
17 <140> CURRENT APPLICATION NUMBER: US 09/806,703A
18 <141> CURRENT FILING DATE: 2001-04-04
20 <150> PRIOR APPLICATION NUMBER: PCT/DK99/00525
21 <151> PRIOR FILING DATE: 1999-10-05
23 <150> PRIOR APPLICATION NUMBER: DK 1998 01261
24 <151> PRIOR FILING DATE: 1998-10-05
26 <150> PRIOR APPLICATION NUMBER: US 60/105,011
27 <151> PRIOR FILING DATE: 1998-10-20
29 <160> NUMBER OF SEQ ID NOS: 41
31 <170> SOFTWARE: PatentIn Ver. 3.0
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 2253
35 <212> TYPE: DNA
36 <213> ORGANISM: Homo sapiens
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51 1          5          10          15
52 cgc ccg cgc tgg ctg tgc gct ggg gcg ctg gtg ctg gcg ggt ggc ttc      96
53 Arg Pro Arg Trp Leu Cys Ala Gly Ala Leu Val Leu Ala Gly Gly Phe
54          20          25          30
55 ttt ctc ctc ggc ttc ctc ttc ggg tgg ttt ata aaa tcc tcc aat gaa      144
56 Phe Leu Leu Gly Phe Leu Phe Gly Trp Phe Ile Lys Ser Ser Asn Glu
57          35          40          45
58 gct act aac att act cca aag cat aat atg aaa gca ttt ttg gat gaa      192
59 Ala Thr Asn Ile Thr Pro Lys His Asn Met Lys Ala Phe Leu Asp Glu
60          50          55          60
61 ttg aaa gct gag aac atc aag aag ttc tta tat aat ttt aca cag ata      240

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 62  | Leu | Lys | Ala | Glu | Asn | Ile | Lys | Lys | Phe | Leu | Tyr | Asn | Phe | Thr | Gln | Ile |      |
| 63  | 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |      |
| 64  | cca | cat | tta | gca | gga | aca | gaa | caa | aac | ttt | cag | ctt | gca | aag | caa | att | 288  |
| 65  | Pro | His | Leu | Ala | Gly | Thr | Glu | Gln | Asn | Phe | Gln | Leu | Ala | Lys | Gln | Ile |      |
| 66  |     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |      |
| 67  | caa | tcc | cag | tgg | aaa | gaa | ttt | ggc | ctg | gat | tct | gtt | gag | cta | gca | cat | 336  |
| 68  | Gln | Ser | Gln | Trp | Lys | Glu | Phe | Gly | Leu | Asp | Ser | Val | Glu | Leu | Ala | His |      |
| 69  |     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |      |
| 70  | tat | gat | gtc | ctg | ttg | tcc | tac | cca | aat | aag | act | cat | ccc | aac | tac | atc | 384  |
| 71  | Tyr | Asp | Val | Leu | Leu | Ser | Tyr | Pro | Asn | Lys | Thr | His | Pro | Asn | Tyr | Ile |      |
| 72  |     |     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |      |
| 73  | tca | ata | att | aat | gaa | gat | gga | aat | gag | att | ttc | aac | aca | tca | tta | ttt | 432  |
| 74  | Ser | Ile | Ile | Asn | Glu | Asp | Gly | Asn | Glu | Ile | Phe | Asn | Thr | Ser | Leu | Phe |      |
| 75  |     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |      |
| 76  | gaa | cca | cct | cct | cca | gga | tat | gaa | aat | gtt | tgc | gat | att | gta | cca | cct | 480  |
| 77  | Glu | Pro | Pro | Pro | Pro | Gly | Tyr | Glu | Asn | Val | Ser | Asp | Ile | Val | Pro | Pro |      |
| 78  | 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     |     | 160 |     |      |
| 79  | ttc | agt | gct | ttc | tct | cct | caa | gga | atg | cca | gag | ggc | gat | cta | gtg | tat | 528  |
| 80  | Phe | Ser | Ala | Phe | Ser | Pro | Gln | Gly | Met | Pro | Glu | Gly | Asp | Leu | Val | Tyr |      |
| 81  |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |      |
| 82  | gtt | aac | tat | gca | cga | act | gaa | gac | ttc | ttt | aaa | ttg | gaa | cgg | gac | atg | 576  |
| 83  | Val | Asn | Tyr | Ala | Arg | Thr | Glu | Asp | Phe | Phe | Lys | Leu | Glu | Arg | Asp | Met |      |
| 84  |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |      |
| 85  | aaa | atc | aat | tgc | tct | ggg | aaa | att | gta | att | gcc | aga | tat | ggg | aaa | gtt | 624  |
| 86  | Lys | Ile | Asn | Cys | Ser | Gly | Lys | Ile | Val | Ile | Ala | Arg | Tyr | Gly | Lys | Val |      |
| 87  |     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |      |
| 88  | ttc | aga | gga | aat | aag | gtt | aaa | aat | gcc | cag | ctg | gca | ggg | gcc | aaa | gga | 672  |
| 89  | Phe | Arg | Gly | Asn | Lys | Val | Lys | Asn | Ala | Gln | Leu | Ala | Gly | Ala | Lys | Gly |      |
| 90  |     | 210 |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |      |
| 91  | gtc | att | ctc | tac | tcc | gac | cct | gct | gac | tac | ttt | gct | cct | ggg | gtg | aag | 720  |
| 92  | Val | Ile | Leu | Tyr | Ser | Asp | Pro | Ala | Asp | Tyr | Phe | Ala | Pro | Gly | Val | Lys |      |
| 93  | 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |      |
| 94  | tcc | tat | cca | gat | ggt | tgg | aat | ctt | cct | gga | ggt | ggt | gtc | cag | cgt | gga | 768  |
| 95  | Ser | Tyr | Pro | Asp | Gly | Trp | Asn | Leu | Pro | Gly | Gly | Gly | Val | Gln | Arg | Gly |      |
| 96  |     |     |     | 245 |     |     |     | 250 |     |     |     | 255 |     |     |     |     |      |
| 97  | aat | atc | cta | aat | ctg | aat | ggt | gca | gga | gac | cct | ctc | aca | cca | ggt | tac | 816  |
| 98  | Asn | Ile | Leu | Asn | Leu | Asn | Gly | Ala | Gly | Asp | Pro | Leu | Thr | Pro | Gly | Tyr |      |
| 99  |     |     | 260 |     |     |     |     | 265 |     |     |     | 270 |     |     |     |     |      |
| 100 | cca | gca | aat | gaa | tat | gct | tat | agg | cgt | gga | att | gca | gag | gct | gtt | ggt | 864  |
| 101 | Pro | Ala | Asn | Glu | Tyr | Ala | Tyr | Arg | Arg | Gly | Ile | Ala | Glu | Ala | Val | Gly |      |
| 102 |     |     | 275 |     |     |     |     | 280 |     |     |     | 285 |     |     |     |     |      |
| 103 | ctt | cca | agt | att | cct | gtt | cat | cca | att | gga | tac | tat | gat | gca | cag | aag | 912  |
| 104 | Leu | Pro | Ser | Ile | Pro | Val | His | Pro | Ile | Gly | Tyr | Tyr | Asp | Ala | Gln | Lys |      |
| 105 |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |      |
| 106 | ctc | cta | gaa | aaa | atg | ggt | ggc | tca | gca | cca | cca | gat | agc | agc | tgg | aga | 960  |
| 107 | Leu | Leu | Glu | Lys | Met | Gly | Gly | Ser | Ala | Pro | Pro | Asp | Ser | Ser | Trp | Arg |      |
| 108 | 305 |     |     |     |     | 310 |     |     |     | 315 |     |     |     |     | 320 |     |      |
| 109 | gga | agt | ctc | aaa | gtg | ccc | tac | aat | gtt | gga | cct | ggc | ttt | act | gga | aac | 1008 |
| 110 | Gly | Ser | Leu | Lys | Val | Pro | Tyr | Asn | Val | Gly | Pro | Gly | Phe | Thr | Gly | Asn |      |

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|-----|---|-----|-----|-----|-----|-----|------|
| 111 |   | 325 |     | 330 |     | 335 |      |
| 112 | ttt tct aca caa aaa gtc aag atg cac atc cac tct acc aat gaa gtg |     |     |     |     |     | 1056 |
| 113 | Phe Ser Thr Gln Lys Val Lys Met His Ile His Ser Thr Asn Glu Val |     |     |     |     |     |      |
| 114 |   | 340 |     | 345 |     | 350 |      |
| 115 | aca aga att tac aat gtg ata ggt act ctc aga gga gca gtg gaa cca |     |     |     |     |     | 1104 |
| 116 | Thr Arg Ile Tyr Asn Val Ile Gly Thr Leu Arg Gly Ala Val Glu Pro |     |     |     |     |     |      |
| 117 |   | 355 |     | 360 |     | 365 |      |
| 118 | gac aga tat gtc att ctg gga ggt cac cgg gac tca tgg gtg ttt ggt |     |     |     |     |     | 1152 |
| 119 | Asp Arg Tyr Val Ile Leu Gly Gly His Arg Asp Ser Trp Val Phe Gly |     |     |     |     |     |      |
| 120 |   | 370 |     | 375 |     | 380 |      |
| 121 | ggt att gac cct cag agt gga gca gct gtt gtt cat gaa att gtg agg |     |     |     |     |     | 1200 |
| 122 | Gly Ile Asp Pro Gln Ser Gly Ala Ala Val Val His Glu Ile Val Arg |     |     |     |     |     |      |
| 123 | 385   |     | 390 |     | 395 | 400 |      |
| 124 | agc ttt gga aca ctg aaa aag gaa ggg tgg aga cct aga aga aca att |     |     |     |     |     | 1248 |
| 125 | Ser Phe Gly Thr Leu Lys Lys Glu Gly Trp Arg Pro Arg Arg Thr Ile |     |     |     |     |     |      |
| 126 |   | 405 |     | 410 |     | 415 |      |
| 127 | ttg ttt gca agc tgg gat gca gaa gaa ttt ggt ctt ctt ggt tct act |     |     |     |     |     | 1296 |
| 128 | Leu Phe Ala Ser Trp Asp Ala Glu Glu Phe Gly Leu Leu Gly Ser Thr |     |     |     |     |     |      |
| 129 |   | 420 |     | 425 |     | 430 |      |
| 130 | gag tgg gca gag gag aat tca aga ctc ctt caa gag cgt ggc gtg gct |     |     |     |     |     | 1344 |
| 131 | Glu Trp Ala Glu Glu Asn Ser Arg Leu Leu Gln Glu Arg Gly Val Ala |     |     |     |     |     |      |
| 132 |   | 435 |     | 440 |     | 445 |      |
| 133 | tat att aat gct gac tca tct ata gaa gga aac tac act ctg aga gtt |     |     |     |     |     | 1392 |
| 134 | Tyr Ile Asn Ala Asp Ser Ser Ile Glu Gly Asn Tyr Thr Leu Arg Val |     |     |     |     |     |      |
| 135 |   | 450 |     | 455 |     | 460 |      |
| 136 | gat tgt aca ccg ctg atg tac agc ttg gta cac aac cta aca aaa gag |     |     |     |     |     | 1440 |
| 137 | Asp Cys Thr Pro Leu Met Tyr Ser Leu Val His Asn Leu Thr Lys Glu |     |     |     |     |     |      |
| 138 | 465   |     | 470 |     | 475 | 480 |      |
| 139 | ctg aaa agc cct gat gaa ggc ttt gaa ggc aaa tct ctt tat gaa agt |     |     |     |     |     | 1488 |
| 140 | Leu Lys Ser Pro Asp Glu Gly Phe Glu Gly Lys Ser Leu Tyr Glu Ser |     |     |     |     |     |      |
| 141 |   | 485 |     | 490 |     | 495 |      |
| 142 | tgg act aaa aaa agt cct tcc cca gag ttc agt ggc atg ccc agg ata |     |     |     |     |     | 1536 |
| 143 | Trp Thr Lys Lys Ser Pro Ser Pro Glu Phe Ser Gly Met Pro Arg Ile |     |     |     |     |     |      |
| 144 |   | 500 |     | 505 |     | 510 |      |
| 145 | agc aaa ttg gga tct gga aat gat ttt gag gtg ttc ttc caa cga ctt |     |     |     |     |     | 1584 |
| 146 | Ser Lys Leu Gly Ser Gly Asn Asp Phe Glu Val Phe Phe Gln Arg Leu |     |     |     |     |     |      |
| 147 |   | 515 |     | 520 |     | 525 |      |
| 148 | gga att gct tca ggc aga gca cgg tat act aaa aat tgg gaa aca aac |     |     |     |     |     | 1632 |
| 149 | Gly Ile Ala Ser Gly Arg Ala Arg Tyr Thr Lys Asn Trp Glu Thr Asn |     |     |     |     |     |      |
| 150 |   | 530 |     | 535 |     | 540 |      |
| 151 | aaa ttc agc ggc tat cca ctg tat cac agt gtc tat gaa aca tat gag |     |     |     |     |     | 1680 |
| 152 | Lys Phe Ser Gly Tyr Pro Leu Tyr His Ser Val Tyr Glu Thr Tyr Glu |     |     |     |     |     |      |
| 153 | 545   |     | 550 |     | 555 | 560 |      |
| 154 | ttg gtg gaa aag ttt tat gat cca atg ttt aaa tat cac ctc act gtg |     |     |     |     |     | 1728 |
| 155 | Leu Val Glu Lys Phe Tyr Asp Pro Met Phe Lys Tyr His Leu Thr Val |     |     |     |     |     |      |
| 156 |   | 565 |     | 570 |     | 575 |      |
| 157 | gcc cag gtt cga gga ggg atg gtg ttt gag cta gcc aat tcc ata gtg |     |     |     |     |     | 1776 |
| 158 | Ala Gln Val Arg Gly Gly Met Val Phe Glu Leu Ala Asn Ser Ile Val |     |     |     |     |     |      |
| 159 |   | 580 |     | 585 |     | 590 |      |

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160 ctc cct ttt gat tgt cga gat tat gct gta gtt tta aga aag tat gct      1824
161 Leu Pro Phe Asp Cys Arg Asp Tyr Ala Val Val Leu Arg Lys Tyr Ala
162          595          600          605
163 gac aaa atc tac agt att tct atg aaa cat cca cag gaa atg aag aca      1872
164 Asp Lys Ile Tyr Ser Ile Ser Met Lys His Pro Gln Glu Met Lys Thr
165          610          615          620
166 tac agt gta tca ttt gat tca ctt ttt tct gca gta aag aat ttt aca      1920
167 Tyr Ser Val Ser Phe Asp Ser Leu Phe Ser Ala Val Lys Asn Phe Thr
168 625          630          635          640
169 gaa att gct tcc aag ttc agt gag aga ctc cag gac ttt gac aaa agc      1968
170 Glu Ile Ala Ser Lys Phe Ser Glu Arg Leu Gln Asp Phe Asp Lys Ser
171          645          650          655
172 aac cca ata gta tta aga atg atg aat gat caa ctc atg ttt ctg gaa      2016
173 Asn Pro Ile Val Leu Arg Met Met Asn Asp Gln Leu Met Phe Leu Glu
174          660          665          670
175 aga gca ttt att gat cca tta ggg tta cca gac agg cct ttt tat agg      2064
176 Arg Ala Phe Ile Asp Pro Leu Gly Leu Pro Asp Arg Pro Phe Tyr Arg
177          675          680          685
178 cat gtc atc tat gct cca agc agc cac aac aag tat gca ggg gag tca      2112
179 His Val Ile Tyr Ala Pro Ser Ser His Asn Lys Tyr Ala Gly Glu Ser
180          690          695          700
181 ttc cca gga att tat gat gct ctg ttt gat att gaa agc aaa gtg gac      2160
182 Phe Pro Gly Ile Tyr Asp Ala Leu Phe Asp Ile Glu Ser Lys Val Asp
183 705          710          715          720
184 cct tcc aag gcc tgg gga gaa gtg aag aga cag att tat gtt gca gcc      2208
185 Pro Ser Lys Ala Trp Gly Glu Val Lys Arg Gln Ile Tyr Val Ala Ala
186          725          730          735
187 ttc aca gtg cag gca gct gca gag act ttg agt gaa gta gcc taa      2253
188 Phe Thr Val Gln Ala Ala Ala Glu Thr Leu Ser Glu Val Ala
189          740          745          750
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193 <211> LENGTH: 750
194 <212> TYPE: PRT
195 <213> ORGANISM: Homo sapiens
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200 <223> OTHER INFORMATION: The 'Xaa' at location 2 stands for Gly or Trp.
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205 Arg Pro Arg Trp Leu Cys Ala Gly Ala Leu Val Leu Ala Gly Gly Phe
206          20          25          30
207 Phe Leu Leu Gly Phe Leu Phe Gly Trp Phe Ile Lys Ser Ser Asn Glu
208          35          40          45
209 Ala Thr Asn Ile Thr Pro Lys His Asn Met Lys Ala Phe Leu Asp Glu
210          50          55          60
211 Leu Lys Ala Glu Asn Ile Lys Lys Phe Leu Tyr Asn Phe Thr Gln Ile
212 65          70          75          80

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213 Pro His Leu Ala Gly Thr Glu Gln Asn Phe Gln Leu Ala Lys Gln Ile
214      85      90      95
215 Gln Ser Gln Trp Lys Glu Phe Gly Leu Asp Ser Val Glu Leu Ala His
216      100      105      110
217 Tyr Asp Val Leu Leu Ser Tyr Pro Asn Lys Thr His Pro Asn Tyr Ile
218      115      120      125
219 Ser Ile Ile Asn Glu Asp Gly Asn Glu Ile Phe Asn Thr Ser Leu Phe
220      130      135      140
221 Glu Pro Pro Pro Pro Gly Tyr Glu Asn Val Ser Asp Ile Val Pro Pro
222 145      150      155      160
223 Phe Ser Ala Phe Ser Pro Gln Gly Met Pro Glu Gly Asp Leu Val Tyr
224      165      170      175
225 Val Asn Tyr Ala Arg Thr Glu Asp Phe Phe Lys Leu Glu Arg Asp Met
226      180      185      190
227 Lys Ile Asn Cys Ser Gly Lys Ile Val Ile Ala Arg Tyr Gly Lys Val
228      195      200      205
229 Phe Arg Gly Asn Lys Val Lys Asn Ala Gln Leu Ala Gly Ala Lys Gly
230      210      215      220
231 Val Ile Leu Tyr Ser Asp Pro Ala Asp Tyr Phe Ala Pro Gly Val Lys
232 225      230      235      240
233 Ser Tyr Pro Asp Gly Trp Asn Leu Pro Gly Gly Gly Val Gln Arg Gly
234      245      250      255
235 Asn Ile Leu Asn Leu Asn Gly Ala Gly Asp Pro Leu Thr Pro Gly Tyr
236      260      265      270
237 Pro Ala Asn Glu Tyr Ala Tyr Arg Arg Gly Ile Ala Glu Ala Val Gly
238      275      280      285
239 Leu Pro Ser Ile Pro Val His Pro Ile Gly Tyr Tyr Asp Ala Gln Lys
240      290      295      300
241 Leu Leu Glu Lys Met Gly Gly Ser Ala Pro Pro Asp Ser Ser Trp Arg
242 305      310      315      320
243 Gly Ser Leu Lys Val Pro Tyr Asn Val Gly Pro Gly Phe Thr Gly Asn
244      325      330      335
245 Phe Ser Thr Gln Lys Val Lys Met His Ile His Ser Thr Asn Glu Val
246      340      345      350
247 Thr Arg Ile Tyr Asn Val Ile Gly Thr Leu Arg Gly Ala Val Glu Pro
248      355      360      365
249 Asp Arg Tyr Val Ile Leu Gly Gly His Arg Asp Ser Trp Val Phe Gly
250      370      375      380
251 Gly Ile Asp Pro Gln Ser Gly Ala Ala Val Val His Glu Ile Val Arg
252 385      390      395      400
253 Ser Phe Gly Thr Leu Lys Lys Glu Gly Trp Arg Pro Arg Arg Thr Ile
254      405      410      415
255 Leu Phe Ala Ser Trp Asp Ala Glu Glu Phe Gly Leu Leu Gly Ser Thr
256      420      425      430
257 Glu Trp Ala Glu Glu Asn Ser Arg Leu Leu Gln Glu Arg Gly Val Ala
258      435      440      445
259 Tyr Ile Asn Ala Asp Ser Ser Ile Glu Gly Asn Tyr Thr Leu Arg Val
260      450      455      460
261 Asp Cys Thr Pro Leu Met Tyr Ser Leu Val His Asn Leu Thr Lys Glu

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L:44 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1

L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2